

# Exhibit A

# TYPICAL PROPERTIES OF "SNOWTEX" COLLOIDAL SILICA

EXHIBIT A

Type	SiO <sub>2</sub> wt%	Water wt%	Size nm	pH	Viscosity cp
ST-40	40	60	11—14	9.0—10.5	5—25
ST-50	48	52	20—30	8.5—9.5	5—50
ST-C	20	80	11—14	8.5—9.0	1—10
ST-N	20	80	11—14	9.0—10.0	1—6
ST-O	<b>20</b>	<b>80</b>	<b>11—14</b>	<b>2.0—4.0</b>	<b>1—3</b>
ST-S	30	70	7—9	9.0—10.5	1—7
ST-XS	20	80	4—6	9.0—10.0	1—7
ST-20L	20	80	40—50	9.5—11.0	1—3
ST-OL	20	80	40—50	2.0—4.0	1—3

## Features

Following properties are excellent;

- heat resistance                      ■ binding
- dispersion                            ■ frictionizing
- antistatic                              ■ large surface area
- transparency                         ■ gelation

## Applications

- binder for precision casting
- metal surface treatment
- textile treatment
- paint vehicle
- catalyst binder
- paper treatment
- binder for inorganic film

## Caution

- for industrial use only
- see MSDS for more complete handling information

ST-O is a special grade offered from Nissan Chemical with acidic small particle silicasol, the anion of which is less than 300 ppm. It has good stability and is suitable for the binder for inorganic fibrous shapes of ceramic fiber and glass fiber, and for treatment of steel.



**NISSAN CHEMICAL INDUSTRIES, LTD.**

— Chemicals Division —

Kowa-Hitotsubashi Building, 7-1, 3-chome, Kanda-Nishiki-cho, Chiyoda-ku, Tokyo, Japan

TELEFAX: 03-3296-8360 Telex: 222-3071 NISSANCHEM TOK

■ Inorganic Specialty Chemicals Dept. Phone: 03-3296-8065

## — Overseas Office —

New York Office: Nissan Chemical America Corporation 303 South Broadway, Tarrytown, N.Y. 10591 Phone: 914-332-4745 Telefax: 914-332-4808

Dusseldorf Office: Nissan Chemical Europe GmbH, Deutsch-Japanisches Center, Immermannstrasse 45, 40210 Dusseldorf, F. R. Germany Phone: 0211-172-2715 Telefax: 0211-162243

Singapore Office: Nissan Chemical Ind., Ltd. Singapore Representative Office Tong Eng Building 101 Cecil Street # 16-09 Singapore 0106 Phone: 220-9296/220-9374 Telefax: 224-9624